Abstract

Charles University in Prague, Faculty of Pharmacy in Hradec Králové
Department of Analytical Chemistry

Candidate: Eva Zachařová
Supervisor: PharmDr. Ludmila Matysová, Ph.D.

Title of thesis: Development of HPLC method for determination of terbinafine in the preparation of polyester nanoparticles

The HPLC method for determination of terminating in suspension of nanoparticles has been optimized. This method was based on already developed and validated method for separation and determination of terbinafine and its four impurities, which have been developed in the same department [22]. The optimal chromatographic conditions were: column Zorbax SB-CN (150 mm x 4.6 mm, 5 μm), mobile phase tetrahydrofuran : acetonitrile : citrate buffer pH 4.5 (10:20:70, v/v/v), flow rate of mobile phase 1.0 ml/min, injection volume was 2 μl, UV detection at a wavelength of 226 nm. The total time of analysis was less than 40 minutes. Propylparaben was used as an internal standard.